ranslation.





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	· ·		
Applicant's or agent's file reference 2002DE422	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/m	nonth/year) Priority date (day/month/year)	
PCT/EP2003/006264	13 June 2003 (13.06.	.2003) 28 June 2002 (28.06.2002)	
International Patent Classification (IPC) or r C12H 1/044	national classification and IPC		
Applicant	CLARIANT INTERNATIO	ONAL LTD	
and is transmitted to the applicant a	according to Article 36.	by this International Preliminary Examining Authority	
2. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of1 sheets.			
This report contains indications rel			
Basis of the report			
II Priority			
Non establishmen	t of opinion with regard to novelt	ty, inventive step and industrial applicability	
I cok of unity of invention			
1 17 1		d to novelty, inventive step or industrial applicability;	
V citations and expla	anations supporting such statemer	nt	
VI Certain document	VI Certain documents cited		
VII Certain defects in the international application			
VIII Certain observations on the international application			
	·		
Date of submission of the demand	Date	of completion of this report	
04 December 2003 (04	.12.2003)	16 June 2004 (16.06.2004)	
Name and mailing address of the IPEA/E	P Autho	orized officer	
Faccimile No	Teler	phone No.	



Internation	plication No.
PCT/E	EP2003/006264

(, Basis of the report				
1. With regard to the elements of the international application:*				
] '	the inter	national application as originally filed	
D	₹	the desc	ription:	
_		pages	1-7	, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
5	\overline{X}	the clain		
Ľ		pages		, as originally filed
		pages	, as amended (together	with any statement under Article 19
		pages		, inco with the definition
		pages	1-8 , filed with the letter of	08 April 2004 (08.04.2004)
Γ	\neg	the drav	wings:	
_		pages		, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
ſ	\neg_{t}	he seaue	ence listing part of the description:	
	— "	pages		, as originally filed
		pages		
		pages	, filed with the letter of	
	the ir These	the lar the lar the lar the lar or 55. In regard minary conta filed of furnis furnis The intern	nguage of a translation furnished for the purposes of international search (under R nguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary	which is: ule 23.1(b)). y examination (under Rule 55.2 and/attional application, the international of go beyond the disclosure in the
1	Rep	This beyon	the description, pages the claims, Nos the drawings, sheets/fig report has been established as if (some of) the amendments had not been made, and the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** Int sheets which have been furnished to the receiving Office in response to an invitor as "originally filed" and are not annexed to this report since they do	itation under Article 14 are referred to not contain amendments (Rule 70.16
*	* Any	replace	ement sheet containing such amendments must be referred to under item 1 and an	- Sperin

Internati	application	application No.	
PCT/E	03/06	264	

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

<u></u>	citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-8	YES
		Claims		NO
	Inventive step (IS)	Claims	1-8	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1-8	YES
		Claims		NO

2. Citations and explanations

This report makes reference to the following document: D1: DE 24 08 896 A (BAYER AG) 28 August 1975 (1975-08-28)

- 1. D1, which is regarded as the closest prior art, discloses (see page 2; page 4, first to third paragraphs; page 5, fourth paragraph to page 6; examples) the use of silica sols having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g for clarifying wine, from which the subject matter of claim 1 differs in that the silica sols have a pH value of between 1 and 4.
- 2. The subject matter of claim 1 is therefore novel (PCT Article 33(2)).
- 3. The applicant has convincingly shown by way of comparative examples that a low pH value is essential for solving the technical problem.
- 4. The problem to be solved by the present invention can therefore be regarded as that of providing a silica sol having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g, this silica sol being more effective in fining and

clarifying beverages.

- 5. The solution to this problem proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)) for the following reasons: the use of a silica sol having a particle diameter of between 4 and 150 nm and a surface of between 20 and 700 m²/g and a pH value of between 1 and 4 is not obvious from the prior art and is also not obvious to a person skilled in the art.
- 6. Claims 2 to 8 are dependent on claim 1 and therefore also meet the PCT requirements for novelty and inventive step.